

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P276834

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55HE-RDP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3241.6 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

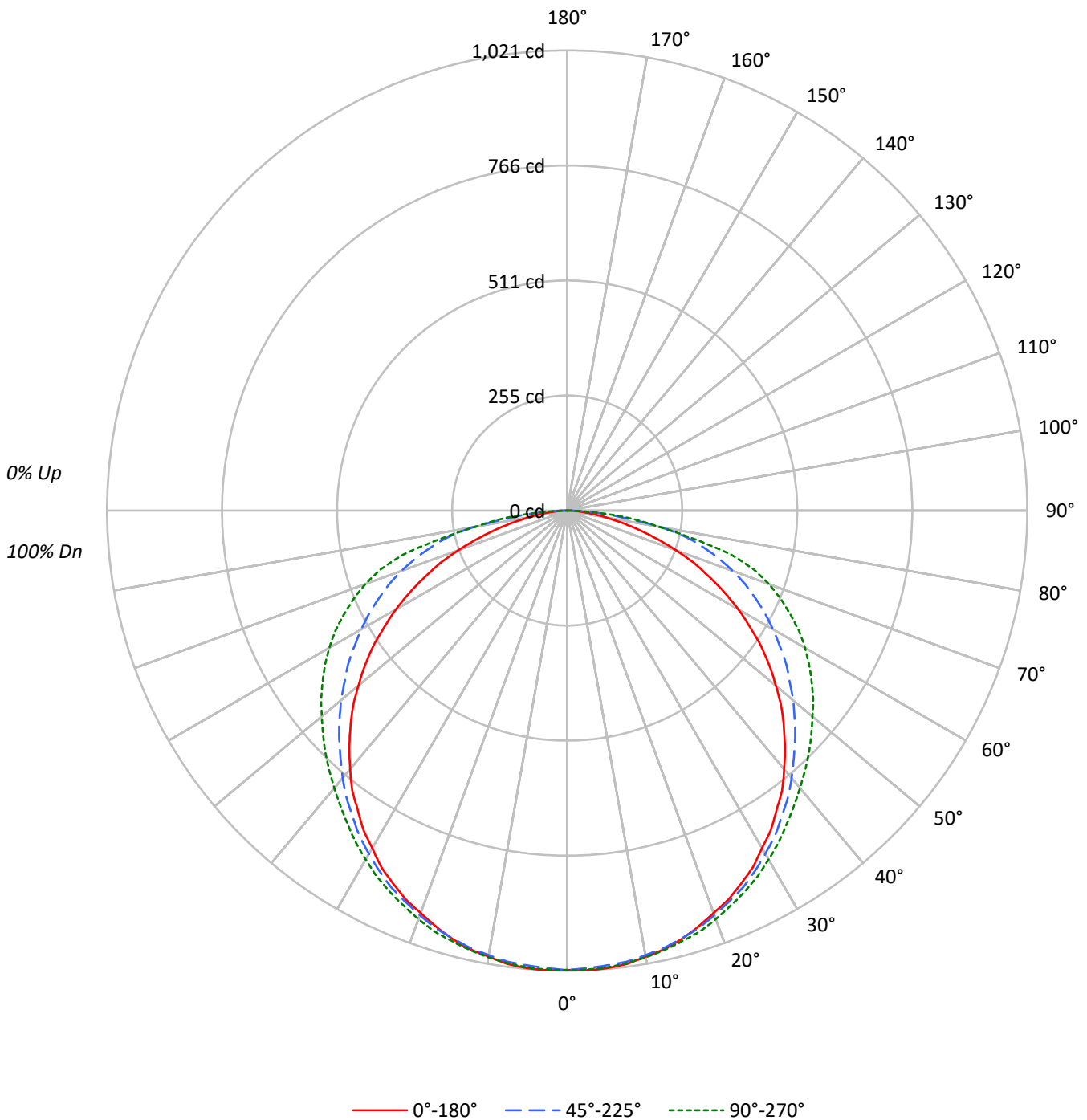
Input Watts (W): 41.125158
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276834

CATALOG NUMBER: 24CZ2-55HE-RDP-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P276834

CATALOG NUMBER: 24CZ2-55HE-RDP-UNV-L93050-W2A1-U-4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1372	1372	1372
5°	1377	1368	1375
10°	1373	1369	1375
15°	1371	1368	1377
20°	1361	1368	1381
25°	1356	1370	1385
30°	1344	1366	1389
35°	1331	1363	1395
40°	1316	1361	1412
45°	1294	1361	1444
50°	1266	1370	1488
55°	1233	1392	1554
60°	1181	1419	1640
65°	1106	1469	1741
70°	1006	1537	1872
75°	853	1621	1956
80°	673	1632	1582
85°	497	1241	1389



TEST NUMBER: P276834

CATALOG NUMBER: 24CZ2-55HE-RDP-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.0
10°-20°	278.3	8.6
20°-30°	425.6	13.1
30°-40°	520.3	16.0
40°-50°	554.5	17.1
50°-60°	530.2	16.4
60°-70°	449.1	13.9
70°-80°	301.8	9.3
80°-90°	85.1	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	800.6	24.7
0°-40°	1320.8	40.7
0°-60°	2405.5	74.2
0°-90°	3241.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3241.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1019	1018	1013	1018	1018	97
15°	984	984	982	990	989	277
25°	913	916	923	931	933	421
35°	810	817	830	846	849	508
45°	680	691	716	746	759	525
55°	526	545	593	640	662	468
65°	347	383	462	523	547	345
75°	164	224	312	365	376	176
85°	32	66	80	87	90	40
90°	0	0	0	0	0	



TEST NUMBER: P276834

CATALOG NUMBER: 24CZ2-55HE-RDP-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1019.4	1019.4	1019.4	1019.4	1019.4
2.5°	1021.0	1021.0	1016.2	1019.4	1019.4
5°	1019.4	1017.8	1013.0	1017.8	1017.8
7.5°	1014.6	1013.0	1009.7	1014.6	1013.0
10°	1004.9	1004.9	1001.7	1006.5	1006.5
12.5°	996.9	995.3	993.7	1000.1	998.5
15°	984.0	984.0	982.4	990.4	988.8
17.5°	967.9	969.5	971.2	977.6	979.2
20°	950.3	953.5	955.1	964.7	964.7
22.5°	934.2	935.8	939.0	948.6	948.6
25°	913.3	916.5	922.9	931.0	932.6
27.5°	892.4	894.0	902.0	913.3	914.9
30°	865.0	869.9	879.5	892.4	894.0
32.5°	840.9	845.7	857.0	869.9	873.1
35°	810.4	816.8	829.7	845.7	849.0
37.5°	783.0	787.9	803.9	821.6	826.4
40°	749.3	758.9	775.0	795.9	803.9
42.5°	715.5	725.2	744.4	771.8	781.4
45°	680.1	691.4	715.5	746.1	758.9
47.5°	644.8	657.6	685.0	720.3	734.8
50°	604.6	620.6	654.4	694.6	710.7
52.5°	566.0	585.3	622.2	667.3	688.2
55°	525.8	545.1	593.3	639.9	662.4
57.5°	480.8	506.5	559.5	612.6	636.7
60°	438.9	463.1	527.4	585.3	609.4
62.5°	393.9	426.1	495.2	556.3	580.4
65°	347.3	382.7	461.5	522.6	546.7
67.5°	305.5	344.1	427.7	488.8	512.9
70°	255.7	303.9	390.7	451.8	475.9
72.5°	209.0	262.1	352.1	411.6	434.1
75°	164.0	223.5	311.9	365.0	376.2
77.5°	122.2	184.9	270.1	292.6	284.6
80°	86.8	147.9	210.6	199.4	204.2
82.5°	56.3	112.6	130.2	147.9	152.7
85°	32.2	65.9	80.4	86.8	90.0
87.5°	14.5	24.1	32.2	32.2	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)